

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/796,201 | 03/10/2004 | Noboru Segawa | 086531-0136 | 2432 |
| 7590 06/14/2007 FOLEY AND LARDNER LLP SUITE 500 3000 K STREET NW WASHINGTON, DC 20007 | | | EXAMINER | |
| | | | MCCRACKEN, DANIEL | |
| | | | ART UNIT | PAPER NUMBER |
| | ., 20 20007 | | 1754 | |
| | | | | |
| | | | MAIL DATE | DELIVERY MODE |
| • | | | 06/14/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | | |
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| ; | Application No. | Applicant(s) | | | | |
| | 10/796,201 | SEGAWA ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Daniel C. McCracken | 1754 | | | | |
| The MAILING DATE of this communication a Period for Reply | appears on the cover sheet wit | th the correspondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MON tute, cause the application to become AB | CATION. sply be timely filed IHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 23 | B May 2007. | | | | | |
| 2a) This action is FINAL . 2b) ⊠ T | This action is FINAL . 2b)⊠ This action is non-final. | | | | | |
| 3) Since this application is in condition for allow | 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice unde | r. Ex parte Quayle, 1935 C.D | . 11, 453 O.G. 213. | | | | |
| Disposition of Claims | | • | | | | |
| 4) Claim(s) 1-12 is/are pending in the applicati | on. | | | | | |
| 4a) Of the above claim(s) <u>4-12</u> is/are withdra | • | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>1-3</u> is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and | d/or election requirement. | | | | | |
| Analtastan Barran | · · · · | r | | | | |
| Application Papers | | * . | | | | |
| 9) The specification is objected to by the Exam | | | | | | |
| 10) The drawing(s) filed on is/are: a) a | | | | | | |
| Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr | • | • | | | | |
| 11) The oath or declaration is objected to by the | - | • | | | | |
| | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for forea) All b) Some * c) None of: | ign priority under 35 U.S.C. § | 119(a)-(d) or (f). | | | | |
| 1. Certified copies of the priority docume | ents have been received. | | | | | |
| 2. Certified copies of the priority docume | | oplication No | | | | |
| 3. Copies of the certified copies of the p | | | | | | |
| application from the International Bur | eau (PCT Rule 17.2(a)). | | | | | |
| * See the attached detailed Office action for a | ist of the certified copies not | received. | | | | |
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| | | · | | | | |
| Attachment(s) | | • | | | | |
| 1) Notice of References Cited (PTO-892) | 4) T Interview S | ummary (PTO-413) | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s |)/Mail Date | | | | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 5) Notice of In 6) Other: | formal Patent Application —· | | | | |

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DETAILED ACTION

Citation to the Specification will be in the following format (S. #, L) where # denotes the page number and L denotes the line number. Citation to patent literature will be in the form (Inventor #, LL) where # is the column number and LL is the line number. Citation to the pregrant publication literature will be in the following format (Inventor #, ¶) where # denotes the page number and ¶ denotes the paragraph number.

Election/Restrictions

Applicant's election without traverse of Group I, Claims 1-3 in the reply filed on 5/23/2007 is acknowledged.

Information Disclosure Statement

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Specification

The disclosure is objected to because of the following informalities: Several presumably typographical errors were found. For example, at (S. 2: 21) applicants have stated " 10⁻⁷ sec [sic] order." It would appear as if either a period should be inserted or the complete word ("second")

should have been spelled out. Further, at (S. 2: 24) Applicants state "adsorbing filer [sic]."

Presumably Applicants meant "filter." This list is by no means exhaustive. Applicants are

requested to make a careful and thorough review of the specification to correct any and all

typographical errors.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,676,913 to

Cirillo, et al. The entire reference teaches each and every limitation of the rejected claims. The

pinpoint citations provided are in no way to be construed as limitations of the teachings of the

reference, but rather illustrative of particular instances where the teachings may be found.

With respect to Claim 1, Cirillo discloses the generation of ozone. (Cirillo 3: 48-57).

Ozone "decomposing" necessarily occurs when it is passed through the catalytic bed disclosed

by Cirillo. See (Cirillo 4: 11 et seq) (noting that the same catalysts disclosed at S. 7: 9-15).

Carbon monoxide is oxidized in an oxidization section (Cirillo 3: 40-48). As to Claim 2, Cirillo

discloses discharge type ozone generators. (Cirillo 3: 55-57). With respect to Claim 3, to the

extent Claim 3 repeats limitations found in Claim 1, the rejection of Claim 1 is relied upon. As to

the odor removal limitation, it is expected that the method disclosed by Cirillo would

"deodorize" any odor components in the air, owing to the processes and catalysts employed.

Cornwell. The entire reference teaches each and every limitation of the rejected claims. The

pinpoint citations provided are in no way to be construed as limitations of the teachings of the

reference, but rather illustrative of particular instances where the teachings may be found.

With respect to Claim 1, Cornwell discloses ozone generation. (Cornwell 5:67 et seq).

Ozone "decomposing" necessarily occurs when it is passed over the catalyst. The examiner

makes note of the similar catalysts employed by Cornwell and Applicants. Compare e.g.

(Cornwell 10: 10-25) ("Catalyst Chemical Composition"). Carbon monoxide is oxidized. See e.g.

(Cornwell 6: 59-63). As to Claim 2, Cornwell discloses a discharge type ozone generator. See

e.g. (Cornwell 8: 1-12). With respect to Claim 3, to the extent Claim 3 repeats limitations found

in Claim 1, the rejection of Claim 1 is relied upon. As to the odor removal limitation, it is

expected that the method disclosed by Cornwell would "deodorize" any odor components in the

air, owing to the processes and catalysts employed. Further, Cornwell generally discloses the

removal of gaseous pollutants known to be odorous. See e.g. (Cornwell 4: 4-18) (discussing all

of the chemicals found in tobacco smoke).

Conclusion

The Examiner makes record of US 5,186,903 to Cornwell. The Cornwell '520 patent is a

divisional of US 5,186,903. With disclosures that are presumably identical, a rejection over the

'903 patent would be superfluous, and one was not made. All other prior art made of record and

not relied upon is considered pertinent to applicant's disclosure.

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All amendments made in response to this Office Action must be accompanied by a pinpoint citation to the Specification (i.e. page and paragraph or line number) to indicate where Applicants are drawing support.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel C. McCracken whose telephone number is (571) 272-6537. The examiner can normally be reached on Monday through Friday, 9 AM - 6 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Edward M. Johnson/

Daniel C. McCracken
Assistant Examiner

DCM

Edward M. Johnson Primary Examiner